PHYSICS LETTERS B

Volume 344, numbers 1,2,3,4 26 January 1995

Contents

Nuclei

Probing $\bar{u}/\bar{d}$ asymmetry in the proton via quarkonium production
J.C. Peng, D.M. Jansen and Y.C. Chen 1

Sequential or simultaneous multifragmentation of nuclei?
A.S. Botvina and D.H.E. Gross 6

The relativistic spin–orbit force near the neutron-drip line
D. Von-Eiff, H. Freyer, W. Stocker and M.K. Weigel 11

Extraction of spin-orbit potentials from scattering data via inversion
H. Leeb, H. Huber and H. Fiedeldey 18

Thermalization and pinch singularities in non-equilibrium quantum field theory
P.F. Bedaque 23

A schematic model for fragmentation and phase transition in nuclear collisions
J. Pan and S. Das Gupta 29

Ξ and $\bar{\Xi}$ production in central S(200 A GeV) on W collisions from RQMD
H. Sorge 35

Thermal equilibration and expansion in nucleus-nucleus collisions at the AGS
P. Braun-Munzinger, J. Stachel, J.P. Wessels and N. Xu 43

Scaling violation of transverse flow in heavy ion collisions at AGS energies
L.V. Bravina 49

Faddeev approach to the octet and decuplet baryons
C. Hanhart and S. Krewald 55

Anomalous mass number dependence of nuclear transparency
A. Kohama, K. Yazaki and R. Seki 61

On the "hindrance" of 3^- excitations induced by nuclear scattering
J.R. Beene, D.J. Horen and G.R. Satchler 67

The research of 2β decay of ^{116}Cd with enriched $^{116}CdWO_4$ crystal scintillators
F.A. Danevich, A.Sh. Georgadze, V.V. Kobychev, B.N. Kropivyansky, V.N. Kuts, A.S. Nikolaiko, V.I. Tretyak and Yu. Zdesenko 72

Two-nucleon knock-out investigated with the semi-exclusive $^{12}C(e, e'p)$ reaction
L.J.H.M. Kester et al. 79

High-momentum components in the $1p$ orbitals of ^{16}O
K.I. Blomqvist et al. 85

Measurements of quasi-elastic pion single charge exchange on ^{3}He at T_π=245 MeV
M.L. Dowell et al. 91

Particles and fields

Induced nucleation in weak first order phase transitions
K. Enqvist and I. Vilja 98

Analysis of the Wheeler–DeWitt equation beyond Planck scale and dimensional reduction
T. Horiguchi, K. Maeda and M. Sakamoto 105

Lessons of quantum 2D dilaton gravity
S.P. de Alwis and D.A. MacIntire 110

Stochastic master fields
M.R. Douglas 117

Centrally extended $W_{1+\infty}$ and the KP hierarchy
F. Martínez-Morás and J. Mas 127

Field theory of open and closed strings with discrete target space
I.K. Kostov 135

On the effective action of a dual Dirac string in a classical model
M. Faber, W. Kainz, A.N. Ivanov and N.I. Troitskaya 143

The Barut and Zanghi model, and some generalizations
J. Vaz Jr. 149

(Continued on page 3 of cover)

0370-2693(19950119)344:1/4;1-N

PHYSICS LETTERS B

Volume 344, numbers 1,2,3,4 **26 January 1995**

Contents

(Continued from page 4 of cover)

Algebraic renormalization of antisymmetric tensor matter fields
V. Lemes, R. Renan and S.P. Sorella 158

Unifiable supersymmetric left-right model with E_6 particle content
E. Ma 164

Simple singularities and $N=2$ supersymmetric Yang-Mills theory
A. Klemm, W. Lerche, S. Yankielowicz and S. Theisen 169

Embedding the $N=2$ supersymmetric Yang-Mills theory in the adjoint Higgs-Yukawa model on the lattice
I. Montvay 176

Electric dipole moments as a test of supersymmetric unification
S. Dimopoulos and L.J. Hall 185

Infrared fixed points and fixed lines in the top-bottom-tau sector in supersymmetric grand unification
B. Schrempp 193

Electroweak symmetry breaking with non-universal scalar soft terms and large tan β solutions
M. Olechowski and S. Pokorski 201

Naturally light Higgs doublets in the supersymmetric grand unified theories with dynamical symmetry breaking
T. Yanagida 211

The Higgs sector of a supersymmetric left-right model
K. Huitu and J. Maalampi 217

New neutral gauge bosons and new heavy fermions in the light of the new LEP data
E. Nardi, E. Roulet and D. Tommasini 225

Updated parameter limits of the left-right symmetric model
J. Sirkka 233

Radiative vector-meson decays in SU(3) broken effective chiral Lagrangians
A. Bramon, A. Grau and G. Pancheri 240

Pseudoscalar conversion and X-rays from stars
E.D. Carlson 245

Transition radiation of ultrarelativistic neutral particles
W. Grimus and H. Neufeld 252

Tests of direct and indirect CPT violation at a B factory
D. Colladay and V.A. Kostelecký 259

Stability of fine tuned hierarchies in strongly coupled chiral models
T.E. Clark and S.T. Love 266

The S parameter in a technicolour model with explicit chiral symmetry breaking
E. Pallante 273

Chiral technicolor and precision electroweak measurements
J. Terning 279

$b\to sy$ and $Z\to b\bar{b}$ in technicolor with scalars
C.D. Carone, E.H. Simmons and Y. Su 287

Lattice QCD as a theory of interacting surfaces
B. Rusakov 293

Strangeness enhancement and string fusion in nucleus–nucleus collisions
N. Armesto, M.A. Braun, E.G. Ferreiro and C. Pajares 301

Two-loop mixing of dimension-five flavor-changing operators
M. Misiak and M. Münz 308

Confinement, crossing symmetry, and glueballs
A.S. Goldhaber and T. Goldman 319

On soft singular infrared behaviour of the gluon propagator
A.I. Alekseev 325

Further ways to distinguish single-lepton top quark signals from background at the Tevatron
V. Barger, E. Mirkes, J. Ohnemus and R.J.N. Phillips 329

Combining vector- and heavy quark symmetry
T. Feldmann and T. Mannel 334

More on ambiguities in the pole mass
M. Beneke 341

Spin structure function $g_2(x, Q^2)$ and twist-3 operators in QCD
J. Kodaira, Y. Yasui and T. Uematsu 348

(Continued on preceding page)

Volume 344, numbers 1,2,3,4 26 January 1995

Contents

(Continued from page 3 of cover)

New strong sector, odd-parity processes, and the Tevatron
B. Holdom 355

$O(\alpha\alpha_s \ln m_t^2)$ non-universal corrections to the decay rate $\Gamma(Z\to b\bar{b})$
A. Kwiatkowski and M. Steinhauser 359

Probing anomalous quartic vector boson couplings in e^-e^- collisions
F. Cuypers and K. Kołodziej 365

Transversely polarized baryon–antibaryon production in e^-e^+ collisions
A.P. Contogouris, O. Korakianitis, F. Lebessis and Z. Merebashvili 370

$R_{e^+e^-}$ at low energies in variational perturbation theory
I.L. Solovtsov and O.P. Solovtsova 377

The process $e^+e^-\to l\bar{l}\,q\bar{q}$ at LEP and NLC
D. Bardin, A. Leike and T. Riemann 383

Sensitivity of the asymmetry of the polarized b-quark radiative $b\to sγg$ decay to the model FCNC
T.M. Aliev, E. Iltan, N.K. Pak and M.P. Rekalo 391

The Chiral Lagrangian parameters, $\bar{\ell}_1$, $\bar{\ell}_2$, are determined by the ρ-resonance
M.R. Pennington and J. Portolés 399

Power suppressed corrections to hadronic event shapes
A.V. Manohar and M.B. Wise 407

A simple relativistic model of $p\bar{p}\to K^+K^-$
T. Frederico, J. Dey and L. Tomio 413

Application of current algebra in three pseudoscalar meson decays of τ lepton
L. Beldjoudi and T.N. Truong 419

S-wave phase shift in $A\pi$ scattering
A. Datta and S. Pakvasa 430

Limits on the neutron–antineutron oscillation time from the stability of nuclei
C.B. Dover, A. Gal and J.M. Richard 433

***Λ* oscillations**
Y.N. Srivastava, A. Widom and E. Sassaroli 436

On the systematic behavior of the chaoticity parameter in HBT analyses
J.A. Casado and S. Daté 441

Fractal analysis of pp interactions at 400 GeV/*c*
S. Wang, J. Zhang, C. Xiao, Y. Ye, Z. Li and T. Shen 447

Measurement of the proton–antiproton total cross section at the SpS collider by a luminosity dependent method
UA4/2 Collaboration 451

Cumulative author index to volumes 331–344 455

Instructions to authors 495